## IN THE CLAIMS

Please amend the claims as follows:

Claims 1-10 (Canceled).

Claim 11 (New): A method for control of an internal combustion engine to regenerate an exhaust-gas purifying mechanism disposed on an exhaust line of the engine, comprising: analyzing a composition of exhaust gases solely downstream from the purifying

mechanism during a phase of regeneration of the purifying mechanism; and

creating a signal for control of the engine based on the analysis to modify the composition of the exhaust gases upstream from the purifying mechanism.

Claim 12 (New): A method according to claim 11, wherein the composition of the exhaust gases is analyzed by an oxygen sensor of all-or-nothing type situated downstream from the purifying mechanism.

Claim 13 (New): A method according to claim 12, wherein an operating temperature of the oxygen sensor is controlled.

Claim 14 (New): A method according to claim 12, wherein an output signal of the oxygen sensor is compared with a reference value, and a control signal is created to reduce the difference between the output signal of the oxygen sensor and the reference value.

Claim 15 (New): A method according to claim 11, wherein an end stage of the regeneration phase is detected based on the control signal.

Claim 16 (New): A control device for regeneration of an exhaust-gas purifying mechanism disposed on an exhaust line of an internal combustion engine, comprising: a control module configured to modify fuel injection; and

an oxygen sensor disposed on the exhaust line directly downstream from the purifying mechanism;

wherein, during a phase of regeneration of the purifying mechanism, the control module is configured to cause a modification of a composition of exhaust gases solely as a function of an output signal of the oxygen sensor.

Claim 17 (New): A device according to claim 16, wherein the oxygen sensor is of allor-nothing or proportional type.

Claim 18 (New): A device according to claim 16, further comprising means for controlling an operating temperature of the oxygen sensor.

Claim 19 (New): A device according to claim 16, further comprising a detection module configured to detect an end of a regeneration phase as a function of a control signal produced by the control module.

Claim 20 (New): A device according to claim 16, wherein the purifying mechanism comprises a nitrogen oxides trap.